

First record of *Toulgoetarctia nigripuncta* (Joicey & Talbot, 1918) (Lepidoptera: Erebidae: Arctiinae) from Brazil

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Abstract

This note reports the first record of *Toulgoetarctia nigripuncta* (Joicey & Talbot, 1918) (Lepidoptera: Erebidae: Arctiinae) in Brazil. The specimens was found in the Amazônia National Park, Pará state, Eastern Amazon. The distribution of *T. nigripuncta* is enlarged 1000 km towards to the south in relation to the closest record for the species.

Key words

Noctuoidea, Arctiini, Phaegopterina, tiger-moths, Neotropics.

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Introduction

The genus *Toulgoetarctia* was described by Coenen and Gibeaux in 2014 and its distribution is exclusively Neotropical; currently there are 6 described species (Coenen and Gibeaux 2014, Gibeaux and Coenen 2014), and among these, 2 have known distribution in Brazil: *Toulgoetarctia haematoria* Coenen & Gibeaux, 2014 (Amazonas) and *T. sanguinea* (Hampson, 1905) (Pará) (Rothschild 1910, Rothschild 1922, Coenen and Gibeaux 2014, Teston and Ferro 2016a).

Toulgoetarctia nigripuncta (Joicey & Talbot, 1918) was described from 2 male specimens whose type locality is St. Laurent, Maroni River, French Guiana; the type is deposited in the collection of the Natural History Museum, London, UK (NHMUK) (Joicey and Talbot 1918, Gibeaux and Coenen 2014, Vincent and Laguerre 2014). This species is also reported as occurring in Venezuela (El Dorado and P[uer]to Ayacucho) (Gibeaux and Coenen 2014) (Table 1).

Methods

Three individuals of *T. nigripuncta* (Fig. 1) were recorded between 14–15 July 2013 and 3–4 October 2013, using L-shaped light traps made with 2 white sheets (2 × 2 m) and 2 mixed-lamps (250 watts), in the Amazônia National Park, Municipality of Itaituba, state of Pará, Brazil (04°32'52.9" S, 056°18'11.8" W) (Fig. 2).

The voucher specimens were deposited in the lepidopterological collection of the Laboratório de Estudos de Lepidópteros Neotropicais (LELN) of the Programa de Ciências Naturais, Universidade Federal do Oeste do Pará. Catches were made with permission of ICMBio, under “Autorização para atividades com finalidade científica 30499-2” and “Licença Permanente para Coleta de Material Zoológico 18132-3” from SISBIO, both issued to JAT.

Results

The identification was made by description and by comparison with the figures of the articles of Joicey

Table 1. Geographical coordinates of known distribution of *Toulgoetarctia nigripuncta* (Joicey & Talbot, 1918).

Country*	State/province	Locality*	Latitude [†]	Longitude [†]
French Guyana	Saint-Laurent-du-Maroni	Saint-Jean-du-Maroni	05°24'9.2" N	054°04'35.8" W
French Guyana	Saint-Laurent-du-Maroni	Saint-Laurent-du-Maroni	05°29'1.9" N	054°01'29.6" W
French Guyana	Saint-Laurent-du-Maroni	Saül	03°51'37.7" N	053°18'15.4" W
French Guyana	Saint-Laurent-du-Maroni	Piste Paul-Isnard PK 41	05°10'18.2" N	053°57'35.5" W
French Guyana	Cayenne	Piste Coralie PK 2	04°30'39.6" N	052°22'22.7" W
French Guyana	Cayenne	Piste de Kaw, Patawa PK 36	04°32'42.1" N	052°09'09.8" W
French Guyana	Cayenne	Piste de Kaw PK 37,3	04°32'48.2" N	052°08'38.1" W
French Guyana	Cayenne	Piste de Kaw PK 38	04°32'26.9" N	052°08'05.5" W
French Guyana	Cayenne	Piste de Kaw PK 39	04°32'02.3" N	052°07'45.5" W
French Guyana	Cayenne	R.N. 2, PK 62, Auberge des Orpailleurs	04°30'39.9" N	052°21'04.6" W
French Guyana	Cayenne	R.N. 2, PK 79	04°23'16.3" N	052°18'30.9" W
French Guyana	Cayenne	Piste Dégrad'Corrèze PK 0,2	04°31'06.0" N	052°19'18.0" W
French Guyana	Cayenne	Route de Kaw, R.D. 04, PR 40	04°34'0.01" N	052°12'00.0" W
French Guyana	Cayenne	Sinnamary	05°22'28.82" N	052°57'16.5" W
French Guyana	Cayenne	Route de Régina PK 32,5, Piste de Nancibo PK 6	04°39'58.9" N	052°26'20.3" W
French Guyana	Cayenne	Piste de Coralie PK 6, Piste Changement PK 2	04°29'53" N	052°24'42" W
Venezuela	Bolivar	El Dorado	06°42'54.32" N	061°38'15.8" W
Venezuela	Amazonas	P[uert]o Ayacucho	05°39'41.30" N	067°34'57.9" W

* Gibeaux and Coenen (2014).
† Geographical coordinates approximate, derived using by Google Earth™.



Figure 1. *Toulgoetarctia nigripuncta* (Joicey & Talbot, 1918), dorsal view, male. Scale bar = 1 cm.

and Talbot (1918) and Gibeaux and Coenen (2014). The general appearance of *T. nigripuncta* is very close to *T. sanguinea*: they have identical venation of the wings, but more mixed with yellow, the discal line strongly curved, and the 3 subapical dots placed in curve. Male genitalia characterized by a unique and massive harp, the uncus bifid and not so long, the vesica of the aedeagus with 2 areas of cornuti: the first area with a row of 5 cornuti cuneiformes, the second area of small cornuti filiformes (genitalia were compared to the original photos published by Gibeaux and Coenen (2014)).

Examined material. *Toulgoetarctia nigripuncta* (Joicey & Talbot, 1918): Brazil, Pará, Itaituba, Amazônia National Park 14–15-VII-2013, 1 male, Figueiredo, A.E.S. leg., voucher number (LELN 01.591) and 03–04-X-2013, 2 males, Paixão, N.C.G. leg., voucher numbers (LELN 01.587 and 01.589).

Discussion

This is the first record for the species in Brazil and it extends the known distribution of *T. nigripuncta* 1000 km

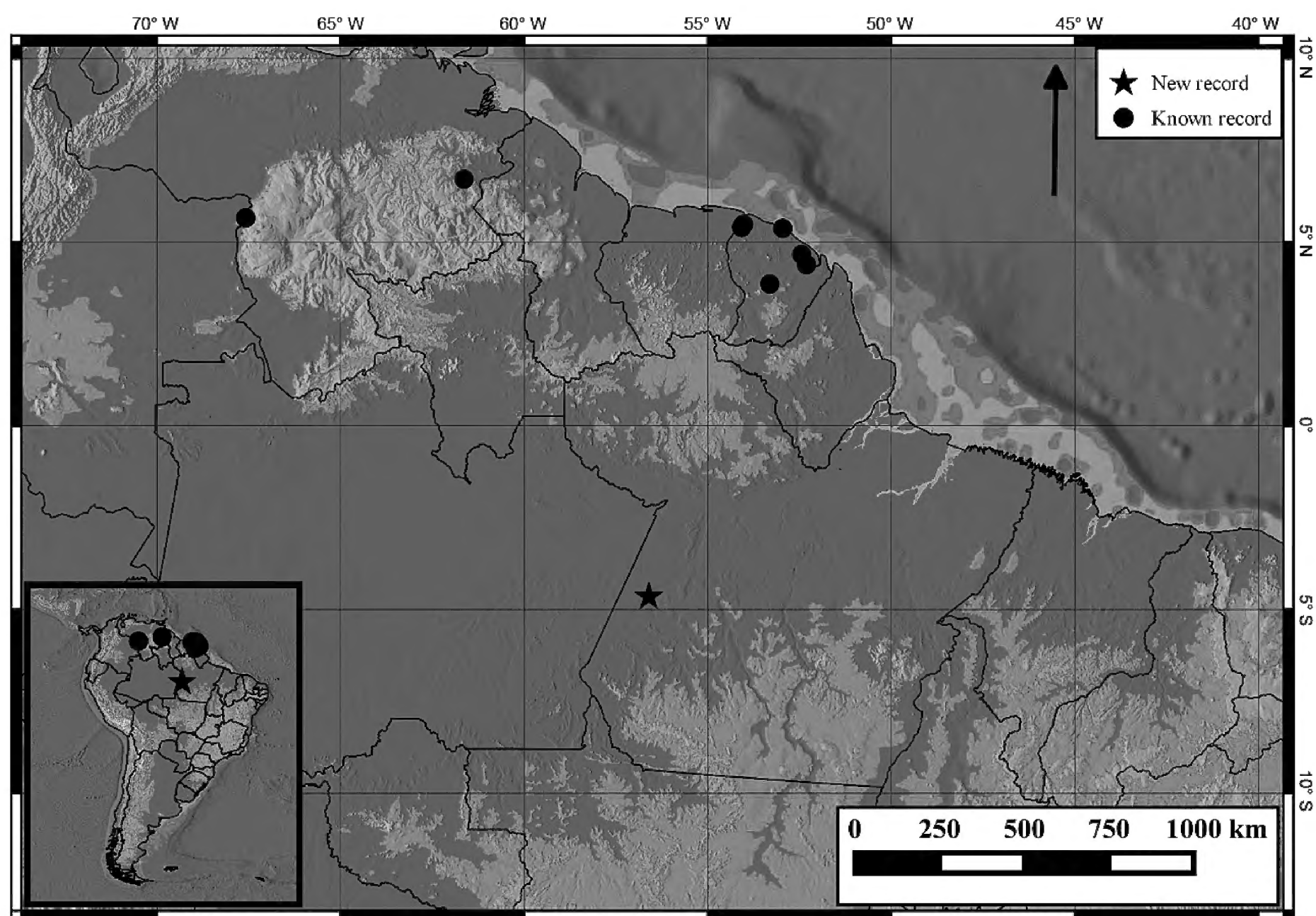


Figure 2. Known geographic distribution of *Toulgoetartia nigripuncta* (Joicey & Talbot, 1918).

south from Saint-Laurent-du-Maroni (locality of Saül) in French Guyana, the closest record for the species (Gibeaux and Coenen 2014). This new record increases the number of species of *Toulgoetartia* occurring in Brazil (Coenen and Gibeaux 2014, Teston and Ferro 2016a) to 3; this record also increases the number of species of Arctiinae occurring in Pará to 535 (Teston et al. 2016) and to 820 in the Brazilian Amazon (Teston and Ferro 2016b). Furthermore, it highlights the need of sampling in poorly known areas such as the Brazilian Amazon.

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